Development (1944) Department.

Ms SERIES.

~~G.O. No.~~ Letty 4116

Dated 6-8-44

[Despatch Abstract.]

Agriculture - Indian Central Cotton Committee- Scheme for the improvements of 'Tinnevellies' and Karunganni cotton in Madras Province - Scheme - Forwarded to the Indian Central Cotton Committee -

A SCHEME FOR THE IMPROVEMENT OF TINNEVELLIES AND KARUNGANNI COTTON IN MADRAS PRESIDENCY

INTRODUCTION:-

Eight lakhs of acres of the black soils of the southern and central districts are annually grown with cotton, comprising of more than one desi variety, known in trade as Uppam, Tinnies, and Karunganni. Uppam, a short staple variety is grown as a pure crop in parts of the central and coastal belt of the southern districts where rains are received late. Karunganni (G.arboreum var neglectum forma indica) a medium staple cotton is extensively cultivated in areas where rains are received early. 'Tinnies' a variable mixture of both Uppam and Karunganni, is still grown over a fairly large area in the southern districts.

HISTORY OF PREVIOUS WORK:-

Breeding of the cotton varieties of these areas has been in progress both in the Agricultural Research Station, Koilpatti and Coimbatore in 1906. One of the early selections C.7 replaced the local Karunganni and held the field till about 1935. This was followed by K.1 a strain free from the defects of C.7. However, K.1 is of late reported to have deteriorated in quality and to be susceptable to root rot. A new hybrid strain 4706 evolved in the Madras Hebarceum Scheme at Coimbatore promises to be superior to K.1. Experiments on the growing of Karunganni and the Tinnies have conclusively proved that pure Karunganni on account of its quality and high ginning percent, gives in all years a higher cash return than the mixture. So far, it was not found possible to produce a herbaceum type possessing Karunganni standard for quality of lint and ginning pcercent. It was, however, found feasible to replace Uppam or its mixture with 'strains' derived from the arboreum crosses. Of these crosses C.5 and 4706 thrive well in Coimbatore and southern districts respectively. In the interest of trade it is highly desirable to evolve one common strain suitable for both the areas. This is what is sought to be worked out in the scheme.

MATERIALS:-

A large collection of biotypes, transgressing the parental limits in staple length and ginning percentage 3 percent over the upper limit of 33%) have been fixed. Many of them would require detailed test and purification for other agricultural characters. The materials on ~~ahdn~~ hand and those to be further selected would open up immense possibilities for the synthesis of long staple desi cottons exceeding 15/16 inch, suitable for cultivation in the cotton areas of the central and southern districts.

VENUE OF WORK:-

The breeding work on these materials will be carried on at the Agricultural Research Station, Koilpatti which represents the average conditions of the southern areas. Previous experience also has shown that varieties bred at Koilpatti readily adopt themselves for cultivation in the central districts. Concurrent field tests and bulk trials would be needed to achieve the ultimate aim of the scheme. Cotton Breeding Station at Coimbatore will provide the necessary area for these trials.

STAFF:-

An Assistant Cotton Specialist of Gazetted rank will be in direct charge of the Scheme under the Cotton Specialist who will guide and supervise the work. The other staff will consist of three technically trained Assistants (two for Koilpatti and one for Coimbatore) six fieldmen (four at Koilpatti and two at Coimbatore) one clerk and two peons.

p.t.o.

FINANCE:-

A statement giving the financial details of the Scheme is enclosed. The Madras Government will provide buildings dead stock apparatus and materials and ordinary cultivation expenses. Expenditure relating to the experimental cultivation and special contingencies will be met by the Indian Central Cottom Committee. The share for the five year period of the Scheme will be Rs.1,17,276 from the Indian Central Cotton Committee and Rs.29,500 from the Madras Government.

M.S. Sivaraman,
Director of Agriculture.

(c) Laboratory examination like sampling, combing and ginning at Rs.100 per acre.	1,000	1000	1,000	1,000	1,000	5,000

DETAILS

(1) Weighing of experimental produce including single plants — Rs.10 per acre
(2) Sampling in laboratory — 30 -do-
(3) Combing single plants — 30 -do-
(4) Ginning selections — 30 -do-
— 100

(d) Watch and Laboratory boy at Rs.75 per month	900	900	900	900	900	4,500

ETAILS.

(1) 2 Laboratory boys one at Koilpatti one at Coimbatore at Rs.25 per month .. 50
(2) Watchman at Koilpatti at Rs. .. 25 per month
— 75

(e) Stationery and postage	250	250	300	300	300	1,400
(f) Miscellaneous items as seed transport, freight etc.	250	250	300	300	300	1,400
(g) Macarthy hand gin 5" roller	1,350	1,350	--	--	--	2,700
(h) Avery's weighing balance (Table model)	550	550	--	--	--	1,100
(i) Cement balance for weighing single plant produce	500	500	--	--	--	1,000
Total	23,472	23,964	22,636	23,092	24,112	1,17,276

B. CONTRIBUTION OF PROVINCIAL GOVERNMENT

RECURRING - CONTINGENCIES

(a) Ordinary cultivation at Rs.50 per acre	500	500	500	500	500	2,500
(b) Consumable articles like stakes, ropes, labels etc.	150	150	150	150	150	750
(c) Apparatus and materials like balances, gins, cloth bags etc. inclusive of repairs	300	300	300	300	300	1,500
(d) Deadstock like gunnies	150	150	150	150	150	750
(e) Miscellaneous items	200	200	200	200	200	1,000
	1,300	1,300	1,300	1,300	1,300	6,500

NON-RECURRING

(a) Store in black soil		Rs.5,000
(b) Residence for Science Graduates.	2	8,000
(c) do. Fieldmen.	3	7,500
(d) Office equipment like furniture, rack etc.		2,500
		23,000
Grand Total		29,500

/True Copy - forwarded - by order

(Sd.) x x x,
for Gazetted Assistant.

IMPROVEMENT OF KARUNGANNI COTTON.

Budget.

SHARE OF THE INDIAN CENTRAL COTTOM COMMITTEE.

Particulars.	Rate.	No.	First Year.	Second Year.	Third Year.	Fourth Year.	Fifth year.	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.
I. PAY OF OFFICERS.								
Asst. Cotton Specialist (Koilpatti)	260-40/2-500 50/2-700	1	3,120	3,120	3,600	3,600	4,080	17,520
II. PAY OF ESTABLISHMENT								
(a) Science Graduates (2 at Koilpatti & 1 at Coimbatore)	100-5-140-10-220	3	3,600	3,780	3,960	4,140	4,320	19,800
(b) Fieldmen (6 at Koilpatti and 2 at Coimbatore)	45-2-55-1-60	8	4,320	4,512	4,704	4,896	5,088	23,520
(c) Lower Division Clerk (Koilpatti)	45-3-60-2-90	1	540	576	612	648	684	3,060
(d) Peons (Koilpatti)	16-½(A)-25	2	384	396	408	420	432	2,040
III. TRAVELLING ALLOWANCE.			600	600	600	600	600	3,000
IV. COST OF LIVING ALLOWANCE								
Asst. Cotton Specialist	Rs.50 or 17½%		600	600	636	636	720	3,192
V. DEARNESS ALLOWANCE								
Science Graduates	@17½% or 18 plus 6 for the first year and plus 8 from second year.	3	864	936	972	1,008	1,044	4,824
Fieldmen	@ Rs.22 per month	8	2,112	2,112	2,112	2,112	2,112	10,560
Clerk	-do-	1	264	264	264	264	264	1,320
Peons	@ Rs.18 per month	2	432	432	432	432	432	2,160
HOUSE RENT ALLOWANCE.								
Science Graduates at Coimbatore	Rs.15/-	1	180	180	180	180	180	900
Fieldmen -do-	Rs.6.8.0	2	156/-	156	156	156	156	780
CONTINGENCIES for 10 acres. (8 acres at Koilpatti and 2 acres at Coimbatore)								
(a) Manuring at Rs.25 per acre			250	250	250	250	250	1,250
(b) Experimental cultivation at Rs.125 per acre			1,250	1,250	1,250	1,250	1,250	6,250

DETAILS.

(1) Selfing	Rs.50 per acre
(2) Single plant harvest	Rs.60 do.
(3) Marking, labelling etc. of experimental portions progenies and selected plants.	Rs.15 do.

GOVERNMENT OF MADRAS
Development Department.
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Lr.No.Ms.4116.

Fort St. George,
Madras-9,
6th August 1948.

To
The Secretary,
Indian Central Cotton Committee,
BOMBAY.(with enclosure)

Sir,

Sub: Agriculture - Indian Central Cotton Committee
Scheme for the improvement of "Tinnevellies"
and Karunganni Cotton in Madras Province.
Ref: Your letter No.5512/48 dated 27-5-1948.

I am directed to state that the Government of Madras generally approve of the Scheme for improvement of Tinnevellies and Karunganni Cotton in Madras Province, an advance copy of which has already been forwarded to your Committee in Letter C.2.240/48 dated 10th February, 1948 of the Director of Agriculture, Madras. The Director of Agriculture has subsequently reported that the six Field-men for Koilpatti as shown in the budget estimate of the scheme is a clerical error for four Fieldmen. As against a sum of Rs.20,500/- proposed for the construction of buildings, the Director of Agriculture has also agreed to restrict the building works to a store and office room at a cost of Rs.5,000/-. The cost of the scheme taking into account the above modifications works out to Rs.1,22,918/- as detailed below:

Share of the Indian Central Cotton Committee	Rs.1,08,918/-
Share of the Provincial Government	Rs. 14,000/-
	Rs.1,22,918

It will be seen from the budget estimate of the scheme enclosed that the actual share of the Indian Central Cotton Committee is only Rs.1,08,918/- and not Rs.1,17,276/- as mentioned in your letter cited. The Director of Agriculture, Madras has also agreed to treat the scheme as a Part II Scheme for 1949-50. The Scheme will therefore be given effect to from 1st April 1949 only. I am to request that the sanction of the Central Government to the Committee's Share of the expenditure may kindly be communicated to this Government as soon as possible.

Your most obedient servant,

(Sd.) x x x

Copy to the Director of
Agriculture.

/True Copy/

A. Thangaraj 2.12

Office Assistant,
Madras Record Office.

2.12.2012